

G. A. RITZLER.
WICK GAGE.

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974,522.

Patented Nov. 1, 1910.

Fig. 1

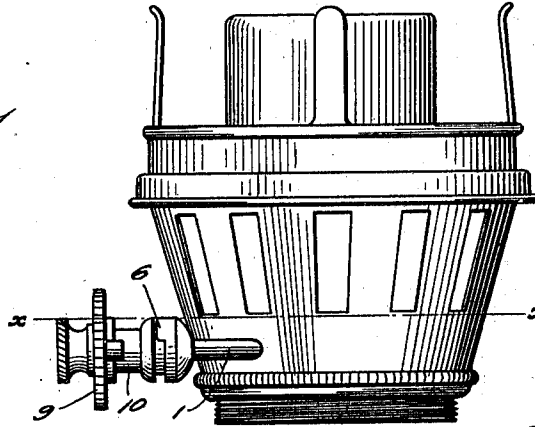


Fig. 5

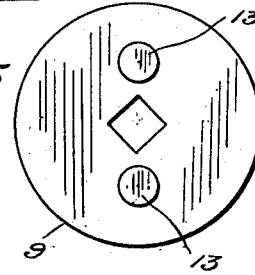


Fig. 2

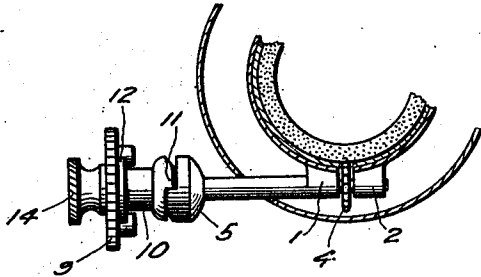


Fig. 4

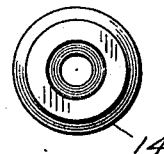
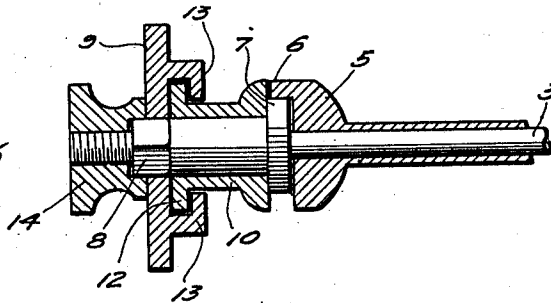


Fig. 3



Witnesses:

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UNITED STATES PATENT OFFICE.

GEORGE A. RITZLER, OF KENTON, OHIO.

WICK-GAGE.

974,522.

Specification of Letters Patent.

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To all whom it may concern:

Be it known that I, GEORGE A. RITZLER, a citizen of the United States, residing at Kenton, in the county of Harden and State of Ohio, have invented certain new and useful Improvements in Wick-Gages; and I do hereby declare the following to be a full, clear, and exact description of the invention, such as will enable others skilled in the art to which it appertains to make and use the same.

My invention relates to wick gages especially designed for use on kerosene mantle burners. If the wick in a burner of this kind is turned up too high, it will smoke and blacken the mantle thereby greatly reducing the effectiveness of the light radiated thereby. The object of the gage is to limit the height to which the wick can be raised. The gage must be adjustable so that it can be continuously used on a wick as it burns down.

The objects of my present invention are to improve the construction of these gages and to provide one which is simple in construction, will not get out of order or slip and which can be readily adjusted to suit all requirements.

The invention consists in the features of construction and combinations of parts hereinafter described and specified in the claims.

In the accompanying drawing: Figure 1 is an elevation of a kerosene mantle burner equipped with my wick gage. Fig. 2 is a horizontal section on the line $x-x$ of Fig. 1. Fig. 3 is an enlarged longitudinal section of the wick gage and the outer end of the spindle which controls the wick, and Figs. 4 and 5 are detail views respectively of the thumb nut and thumb disk.

Referring more particularly to the drawing, 1 and 2 designate the bearing tubes for the wick controlling spindle 3. These tubes are rigidly secured to the burner in any suitable or usual manner and between them is arranged the spur gear 4 fast on the spindle and engaging the wick. On the outer end of the sleeve 1, there is a rigid collar 5 provided with a projection 6. Just beyond this collar a flange 7 is formed on the spindle. Said flange is preferably smaller in diameter than the collar 5 and arranged interiorly of the projection on said collar.

The spindle is squared at 8 some distance beyond the flange to fit correspondingly shaped openings in the thumb disk or knob

9. A sleeve 10 is mounted upon the spindle between the thumb disk and flange 7 and is equipped with a projection 11 similar to the projection 6 on the collar 5. Said projection 11 extends beyond the flange 7 into the path of the projection 6. Said sleeve also has a flange 12 adjacent to the knob and engaged or retained in juxtaposition thereto by hooks 13 on the knob.

A thumb nut 14 is screwed on the threaded extremity of the spindle. When the thumb nut is tightened, it clamps the sleeve 10 firmly between the thumb disk and the flange 7 so that it will turn with said thumb disk and will arrest the same when its projection 11 comes in contact with the projection 6 on the rigid collar 5. The loosening of the thumb nut makes the sleeve free to turn on the spindle so that it can be adjusted to suit the length of the wick.

By reason of the hooks on the knob engaging the flange on the sleeve, said sleeve can be drawn back with said knob, when desired, to bring the projection on said sleeve out of the path of the projection on the rigid collar. This is very convenient because it would be troublesome to otherwise retract and hold the sleeve out of engagement with said flange and collar.

I claim:

1. In a wick gage, of the character described, the combination, with a wick-controlling spindle having its extremity screw threaded, the portion adjacent thereto squared and the next part cylindrical, of a sleeve mounted on said cylindrical portion, a thumb-disk fitted on said squared portion, a thumb-nut mounted on said screw-threaded extremity of the spindle, a rigid flange on said spindle against which the sleeve is clamped when the thumb-nut is tightened, a projection on said sleeve, and a stationary projection extending into the path of the projection on the sleeve for the purpose specified.

2. In a wick gage, of the character described, the combination, with a wick-controlling spindle having its extremity screw threaded, the portion adjacent thereto squared and the next part cylindrical, of a sleeve mounted on said cylindrical portion, a thumb-disk fitted on said squared portion, a thumb-nut mounted on said screw-threaded extremity of the spindle, a rigid flange on said spindle against which the sleeve is clamped when the thumb-nut is tightened,

a projection on said sleeve, and a stationary collar having a projection extending into the path of the projection on the sleeve for the purpose specified.

- 5 3. In a wick of the character described, the combination, with a wick-controlling spindle having its extremity screw threaded, the portion adjacent thereto squared and the
10 said cylindrical portion, of a sleeve mounted on said squared portion, a thumb-disk fitted on said squared portion, a thumb-nut mounted on said screw-threaded extremity of the spindle, a rigid flange on said spindle against which the sleeve is clamped when

the thumb-nut is tightened, a projection on 15 said sleeve, a flange on the end of said sleeve adjacent to the thumb-disk, hooks on said thumb-disk engaging said flange on the sleeve, and a stationary projection extending into the path of the projection on the sleeve 20 for the purpose specified.

In testimony whereof, I affix my signature, in presence of two witnesses.

GEORGE A. RITZLER.

Witnesses:

EVA KUAB,
PHIL M. CROW.